Science - Year 3	
Autumn 1	
Rocks	 There are 3 different types of naturally occurring rocks – igneous, sedimentary, metamorphic. Igneous – rock that has been formed from magma or lava. Sedimentary – rock that has been formed by layers of sediment pressing down on top of each other. Metamorphic – rock that starts as igneous or sedimentary but changes as a result of extreme heat or pressure. A fossil is the preserved remains or traces of a dead organism.
Autumn 2	
Forces & Magnets	 A force is a push or pull. A push moves an object away A pull moves an object towards How different things move on different surfaces is called friction. The more friction there is, the slower an object will move. Magnets have 2 poles – a North pole and a South pole. Some materials are attracted to the poles and are called magnetic materials. Magnetic materials include iron, nickel and steel. Magnets do not attract materials such as copper, rubber, plastic With poles, opposites attract so North Pole / South Pole. The same magnet poles repel (North / North or South / South)
Spring 1	
Plants	 The roots have 4 functions - 1) absorbing water and nutrients 2) anchoring the plant to the ground 3) store food and nutrients, 4) move water and minerals to the stem. The 3 functions of the stem/trunk are to 1) Support and hold up the leaves, flowers and fruits. 2)Transport water and nutrients between the roots and the shoots/leaves 3) Stores nutrients. The function of the leaves is to collect sunlight and make food by photosynthesis. The function of the flowers is to produce seeds to produce more of the same plant.
Spring 2	
Animals Including Humans – skeletons & muscles	 Humans and some animals have skeletons and muscles to support them. Skeletons - support the body, protect the organs in the body; allow us to move. Vertebrates (animals with a backbone) have an endoskeleton. Invertebrates (animals without a backbone) have either an exoskeleton or a hydrostatic skeleton. Joints are where 2 or more bones are fitted together. Muscles are soft tissue that contract and relax to cause movement, they work in pairs to move the bones they are attached to.
Summer 1	
Light	 Dark – when there is no light. Reflection - light bounces off an object – if it hits our eyes, we can see the object. Transparent - you can see clearly through something e.g. a glass window. Opaque - you can't see through it, does not let any light through. Translucent – you can see through something but not clearly. Shadow – when an opaque object blocks the light it forms a shadow.
Summer 2	
Animals Including Humans -Diet	 Animals and humans need food, water and air to survive. Diet is what you eat. Plants create their own food but humans cannot – they have to eat. They get their nutrition from what they eat. The food groups are - Fruit & Vegetables, Starchy Carbohydrates, Dairy, Fats, Protein. It is important to get the right amounts of each of these in order to develop and grow properly.